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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/821,081	04/08/2004	Shigetaka Haga	Hohjoh Case 51	1128	
23474	7590 03/29/2006		EXAMINER		
FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD KALAMAZOO. MI 49008-1631			HEINRICH, S	HEINRICH, SAMUEL M	
			ART UNIT	PAPER NUMBER	
	•		1725	<u> </u>	
			DATE MAILED: 03/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Comment	10/821,081	HAGA, SHIGETAKA			
Office Action Summary	Examiner	Art Unit			
	Samuel M. Heinrich	1725			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>17 Ja</u>	nuary 2006.				
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-8 is/are pending in the application.</li> <li>4a) Of the above claim(s) 5-8 is/are withdrawn for the state of the state of</li></ul>					
Application Papers					
9)⊠ The specification is objected to by the Examine	•				
10)⊠ The drawing(s) filed on <u>08 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the		•			
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119	animer. Note the attached Office	Action of form P 10-132.			
<u> </u>	priority under 35 H.S.C. & 110(a)	(d) or (f)			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
application from the International Bureau	` ''				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)			
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Art Unit: 1725

### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election with traverse of Group I, claims 1-4, in the reply filed on January 17, 2006 is acknowledged. The traversal is on the ground(s) that the search for the elected invention would necessarily entail a search for the non-elected invention. This is not found persuasive because the Group II apparatus can be used for other processing and because the Group I apparatus can be used for methods other than the Group III methods. The requirement is still deemed proper and is therefore made FINAL.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1, last paragraph, "material supporting member" and "ceiling thereof" and "stages of periphery wall portions" and "ring-like horizontal" are written in narrative form and should be more clearly described.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/821,081

**Art Unit: 1725** 

Page 3

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Applicant's Admitted Prior Art (AAPA) or JP2000036370A further in view of JP355165288A and further in view of JP404224628A. AAPA and JP2000036370A are very similar. JP355165288A shows (Fig 1) a chamber having plural diameter portions. JP404224628A describes (English Abstract, last two lines) the use of a shielding body to prolong the apparatus service life. The use of plural chamber diameters in the AAPA or JP2000036370A apparatus would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the shape change will prolong the apparatus service life. The limitations of Claims 2-4 can be found in AAPA (Specification, pages 1-5) and would have been obvious apparatus features at the time applicant's invention was made.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to energy beam systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/821,081

Art Unit: 1725

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich Primary Examiner Art Unit 1725

Samuel M. Hennich